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RESEARCH REPORT: RR 25876  
(CSI #05310)

BASED UPON IAPMO-ES EVALUATION  
REPORT No. ER-0161

REEVALUATION DUE  
DATE: August 1, 2017  
Issued Date: February 1, 2016  
Code: 2014 LABC

**GENERAL APPROVAL** –Reevaluation - ASC Steel Decks for use as a horizontal or sloped roof deck

**DETAILS**

The above assemblies and/or products are approved when in compliance with the use, description, design, installation, conditions of use, and identification of Evaluation Report No. ER-0161 dated June 2010, revised May 29, 2015, of the IAPMO Evaluation Service, Incorporated. The report in its entirety is attached and made part of this general approval.

The parts of Evaluation Report No. ER-0161 marked by the asterisks are deleted or revised by the Los Angeles City Building Department from this approval.

**The approval is subject to the following conditions:**

1. Deck units for each job shall be identified by the manufacturer's name and deck designation. The material thickness and amount of galvanizing shall also be indicated.
2. When requested by the Department, test data by the mill or by an approved testing agency shall be submitted to verify the deck material is as specified in the attachment.
3. Where exposed to the weather, the deck units shall be galvanized.
4. The sizes of puddle welds specified are the fused sizes. For ½" round puddle welds, the top or appearance size is approximately ¾" round.

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5. For each job where the deck units are specified, the following information shall be indicated on the plans to be reviewed by the Department: (a) Cross-section details of the deck units; (b) fastener details, including deck welding or other fasteners at supports, at diaphragm boundaries parallel to flutes, at shear transfer elements, and at side seams if such fasteners are required; (c) minimum length of deck units; and (d) design shears.
6. Spacing of attachments parallel to flutes and at side seams shall be as required but shall not be greater than 3 feet at boundaries parallel to flutes or greater than 4 feet at side seams if attachments are required.
7. Any change of deck units from those specified on the approved plans shall be approved by the design engineer of the building and by Structural Plan Check of the Department. The proprietary nature of the data in this report precludes their use for deck units by other manufacturers.
8. The minimum modified yield strength for ASTM A653 SS Grade 33 and A1008 SS Grade 33 is not to be less than 38ksi. The minimum modified tensile strength for ASTM A653 SS Grade 33 and A1008 SS Grade 33 is not to be less than 52ksi.
9. The numbers of "puddle welds" specified in the tables are required at each support for each deck unit.
10. For diaphragm construction, the use of deck units less than the full width shall be designed to transfer all shear loads.
11. Special inspection by deputy building inspectors shall be provided for welding of the deck units for diaphragms per Section 1704.3 of Los Angeles Building Code.
12. Structural observation is required per Section 1704.5 of Los Angeles Building Code.
13. Deck welding shall be performed by Los Angeles City certified light gage welders. Prior to proceeding with the welding, the welders shall demonstrate to the Deputy Inspectors their ability to produce the prescribed weld satisfactorily. A sample of the deck material shall be welded to steel simulating the framing. The sample specimen shall then be twisted, and if the deck material tears or if the weld in torsion indicates the proper fusion area, the weld shall be considered satisfactory.
14. Welding of cellular panels shall be performed in an approved Los Angeles City licensed fabricators shop.
15. Allowable loads in the tables are not applicable to concentrated loads or to predominantly vibratory loads.
16. Diaphragm shear values in the tables shall not be increased one-third for seismic or wind loading.

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17. Fatigue loads, fire ratings, and acoustical performance are outside the scope of this report.

## DISCUSSION

The report is in compliance with the 2014 Los Angeles City Building Code.

The approval is based on tests and analysis in accordance with the IAPMO - ES EC 007-2013, Evaluation Criteria for Steel Deck. Test results are from laboratories in compliance with ISO/IEC 17025

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

This general approval will remain effective provided the Evaluation Report is maintained valid and unrevised with the issuing organization. Any revisions to the report must be submitted to this Department, with appropriate fee, for review in order to continue the approval of the revised report.

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Attachment: IAPMO ES Report No. ER-0161 (171 Pages)